WE LOOK AFTER THE EARTH BEAT

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EXOMARS

V. Giorgio

15/5/2014 Exploration and Science

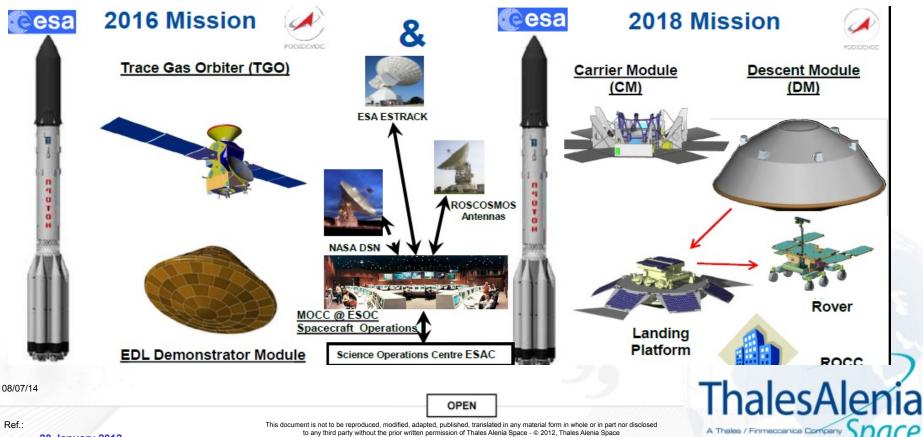
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ExoMars Programme

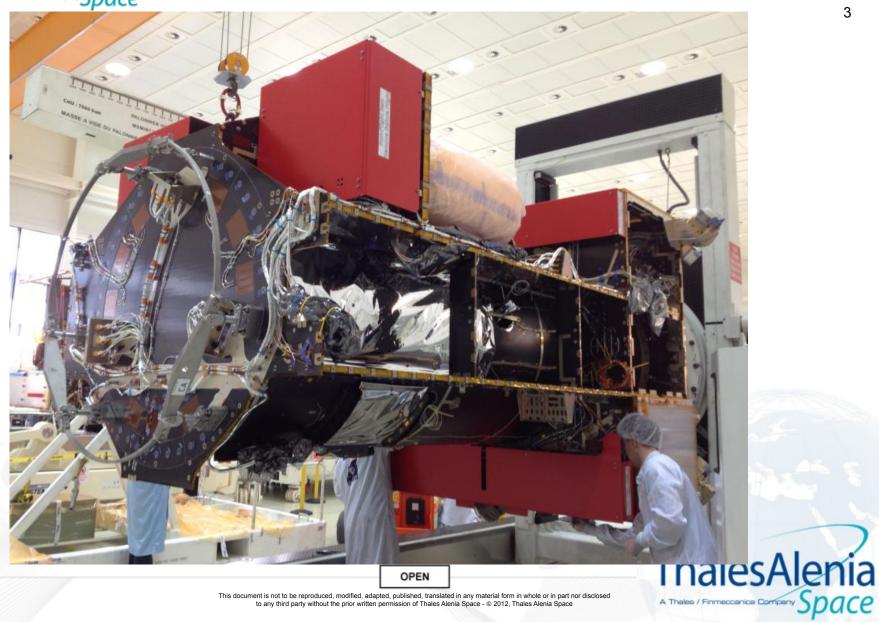
Two missions launched in 2016 and 2018, respectively:

- 2016 Mission composed of a Trace Gas Orbiter (TGO) and an Entry Descent and Landing Demonstrator Module (EDM)
- 2018 Mission composed of a Carrier Module (CM) shipping a Descent Module (DM) that contains a **Rover** and a stationary **Landing Platform**.









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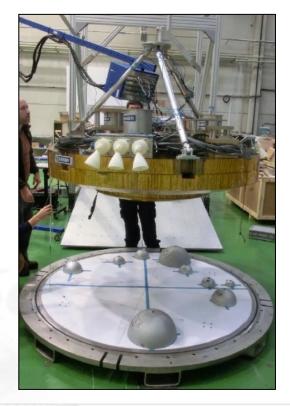
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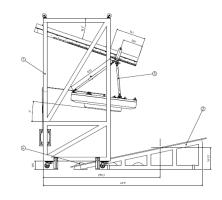


4

- Landing Impact tests
 - Crushing Test on Samples (performed)
 - Full Scale BB crush test campaign (performed)
 - Qualification Test on ESP QM
 - Test performed at subcontractor level (SENER)







Test on full scale BB

Credit of SENER



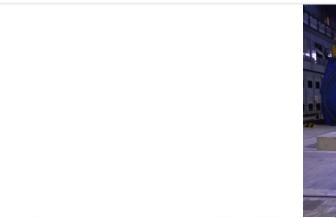
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EDM SM

ThalesAlenia A These / Finneccenice Correctly Space







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2018 mission - Rover

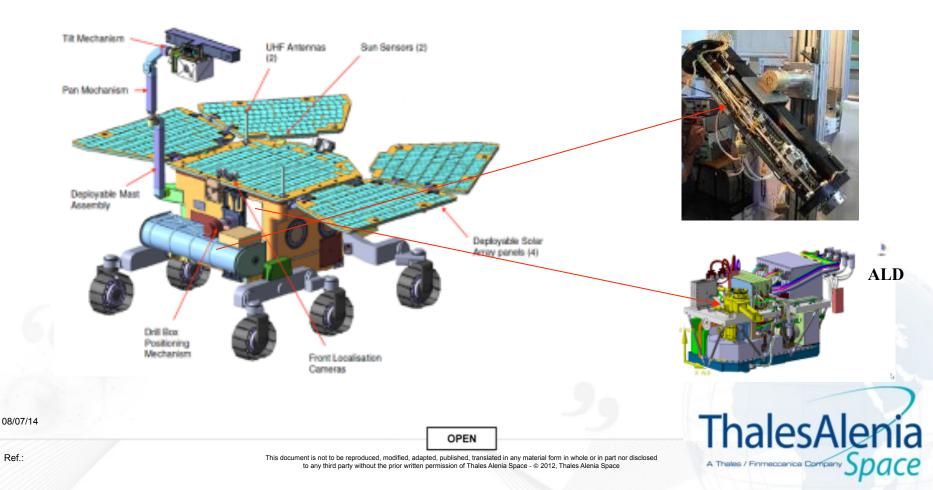


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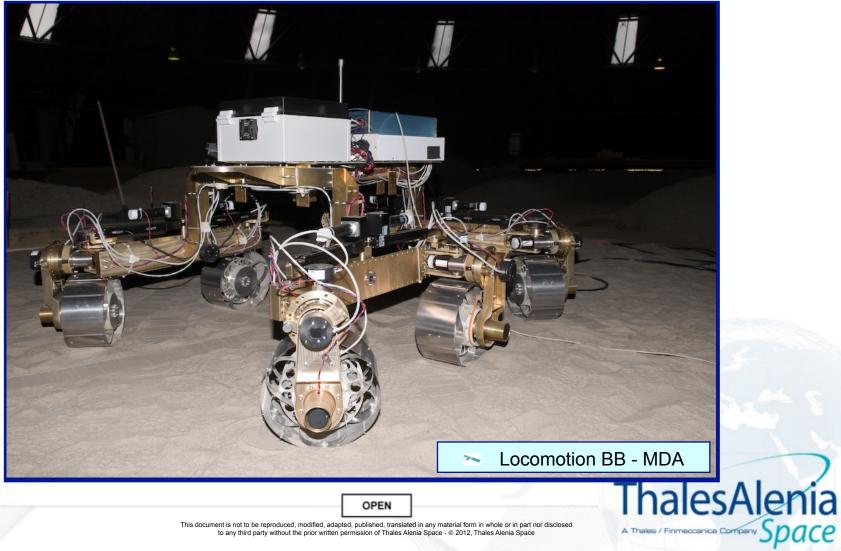
Rover: ESA (350 kg class)

Two Russian instruments (Infrared Spectrometer on Deployable Mast and Radiation Monitor on the RV body)

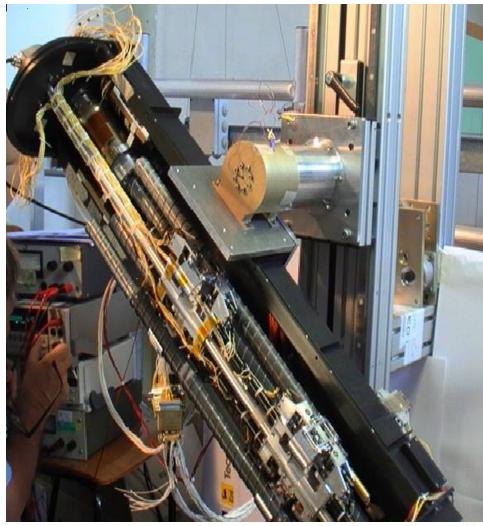
Drill



24 Apr 2012







Drill BB (courtesy of Selex)

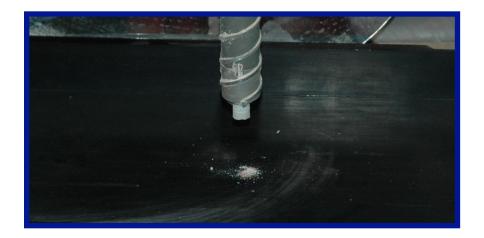
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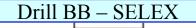
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24 Apr 2012









Milling Station BB – courtesy of Kaiser Threde



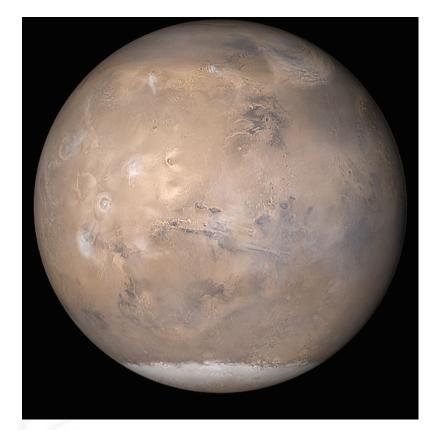
Dosing Station BB – courtesy of Kaiser Threde



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Why Mars?





Now: Cold and Arid

Past: Wet and Warm?



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